

SECTION 7

AIR CONDITIONING

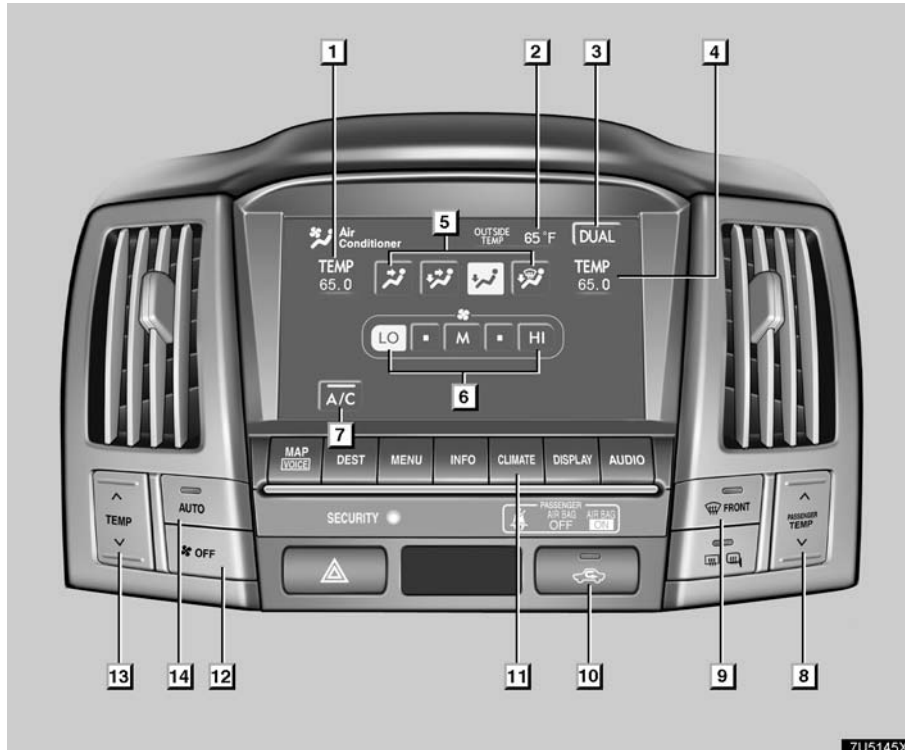
Air conditioning

- [Automatic air conditioning controls](#)

288

Automatic air conditioning controls

Operations such as changing the air outlets or fan speed are carried out on the touch screen. To display the air conditioning touch screen, push the “**CLIMATE**” button.



- | | |
|--|---|
| <p>1 Driver side temperature display
(In degrees Fahrenheit or Centi-
grade) 292</p> <p>2 Outside temperature display
(In degrees Fahrenheit or Centi-
grade) 298</p> <p>3 “DUAL”
(Temperature setting mode change
touch–screen button) 293</p> <p>4 Passenger side temperature dis-
play
(In degrees Fahrenheit or Centi-
grade) 292</p> <p>5 Air flow control touch–screen but-
tons 294</p> <p>6 Fan speed control touch–screen
buttons 295</p> | <p>7 “A/C” 297</p> <p>8 “PASSENGER TEMP” buttons
(Passenger side temperature control
button)
(Only for the independent mode that
display shows “DUAL”; mainly for
front passenger and secondarily for
driver) 292</p> <p>9 Windshield air flow button
..... 297</p> <p>10 Air intake control button 296</p> <p>11 “CLIMATE” button
(Air conditioning operation screen
display button) 291</p> <p>12 “OFF” button 291</p> |
|--|---|

- 13

“TEMP” buttons

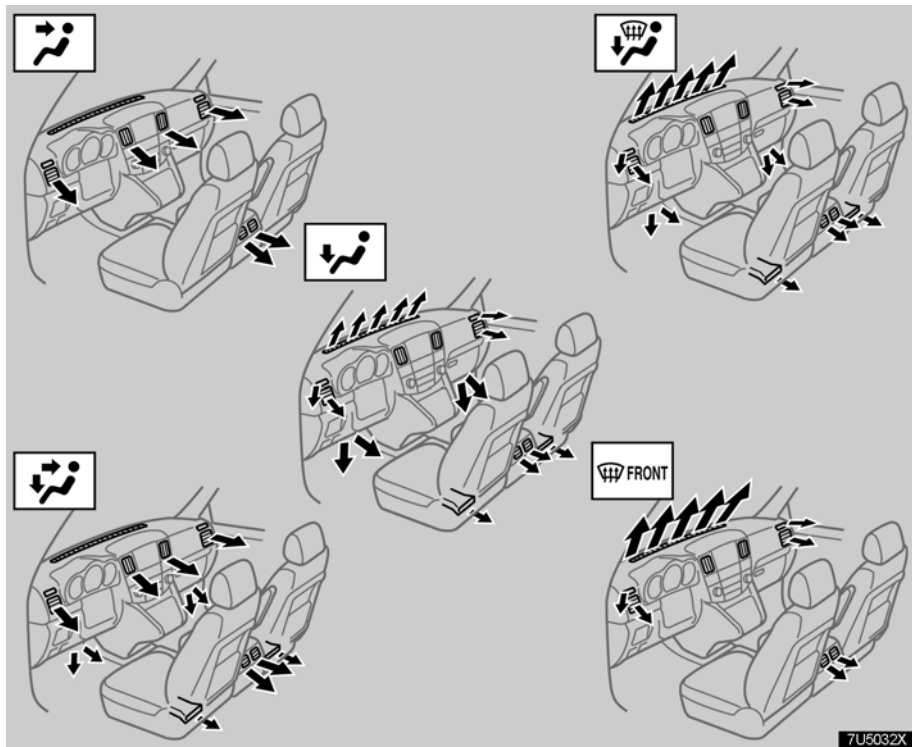
(Driver side temperature control button) (At the independent mode that display shows **“DUAL”**; mainly or driver and secondarily for front passenger)

(At the linked mode that display does not show **“DUAL”**; for driver)

..... 292
- 14

“AUTO” button 291

AIR CONDITIONING

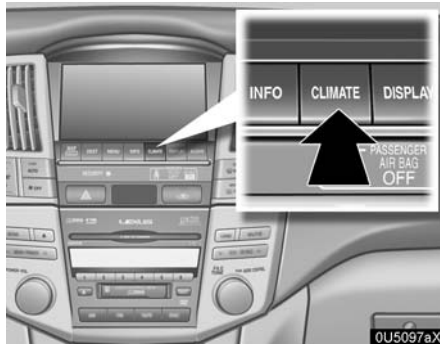


► Air flow selection

The automatic air conditioning automatically maintains the set temperature.

In the automatic operation mode, the air conditioning selects the most suitable fan speed, air flow, air intake and on-off the air conditioning according to the temperature.

The engine switch must be in the "ON" position.



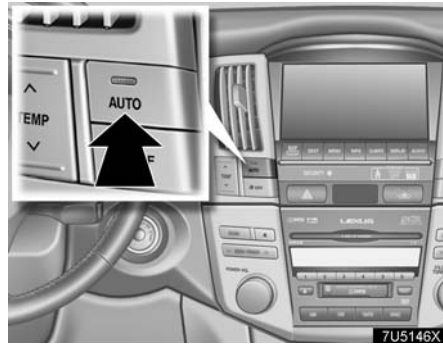
"CLIMATE": Push this button to display touch-screen buttons for automatic air conditioning controls.

NOTICE

To prevent the battery from being discharged, do not leave the air conditioning on longer than necessary when the engine is not running.

(a) Climate control

SETTING OPERATION – automatic control



1. Push the "AUTO" button.

An indicator light will illuminate to show that the automatic operation mode has been selected.

Air flow quantity, switching of the diffusers, on-off of the air conditioning and switching of the air intake between RECIRCULATED AIR and OUTSIDE AIR are automatically adjusted. When you push the "AUTO" button with the air intake mode at OUTSIDE AIR, internal circulation may be applied for maximum cooling. The operation status is shown by each indicator and display.

When one of the manual control buttons is depressed while operating in automatic mode, the operation corresponding to the depressed button is set. Other conditions continue to be adjusted automatically.

Push the "OFF" button to turn the air conditioning system off.

INFORMATION

- This automatic control has additional function as described below, when the “AUTO” button is pushed.

The fan speed is stopped for a little while until warm air preparation, when outside temperature is cold like a winter season in the “Floor”, “Bi-level” or “Floor/Windshield” air flow mode. If quick removal for exterior frost, fog and inside fog on the windshield is desired, use the high fan speed setting after the “Windshield” air flow mode has been selected.

The fan speed is stopped few seconds until cool air preparation, when outside temperature is hot like a summer season in the “Panel” or “Bi-level” air flow mode.

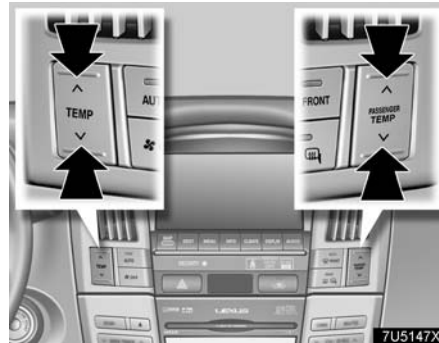
- The internal circulation may be applied for maximum cooling in the automatic operation mode, when outside temperature is hot like a summer season.

If fresh outside air is desired into the vehicle, push the air intake control button to select the OUTSIDE AIR mode.

- The “Floor/Windshield” air flow mode may be applied automatically, if the outside temperature is lowered down to below 0°C (32°F).

This is not malfunction. The “Floor/Windshield” air flow mode turns on the defogging and defrosting function with the purpose of cleaning your front view for safe driving.

If the “Floor” air flow mode is desired with the main purpose of heating, “Floor” air flow mode can be selected manually by touching the air flow control button.



2. Use the “TEMP” or “PASSENGER TEMP” button to set the desired vehicle interior temperature.

The “TEMP” or “PASSENGER TEMP” selector button is used to set the desired interior temperature. The interior temperature will be controlled on the driver and passenger side room zones simultaneously or individually.

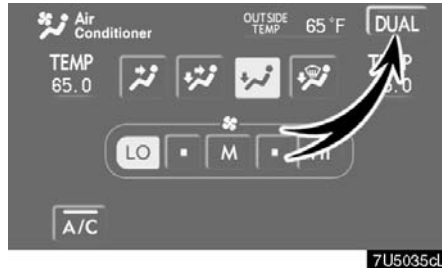
To increase the interior temperature, push the “^” side, to decrease it, push the “v” side.

If quick heating or cooling is desired —

“LO” appears when you hold it until maximum cooling (decrease), and “HI” appears when you hold it until maximum warming (increase).

“TEMP” button — Changes the temperature on the driver and passenger sides simultaneously or the driver side only.

“PASSENGER TEMP” button — Changes the temperature settings separate from the driver side.



“DUAL” —

This button is used to set the temperatures independently for the driver's seat and front passenger seat.

Touching the button changes from the independent mode to the linked mode.

Independent mode: Temperatures can be set independently for the driver's seat and front passenger's seat. The indicator will come on to show that the independent mode has been selected.

Linked mode: The same temperature is set for the driver's seat and front passenger's seat. The indicator will come off to show that the simultaneous temperature setting mode has been selected.

When the temperature for the front passenger's seat is changed in linked mode, the mode is changed automatically to independent mode.

INFORMATION

Knowledge for the two-temperature selector operation:

This air conditioning system has two independent temperature selectors: left and right (for the use of driver and front passenger respectively).

- *There are cases where the temperature of the airflow may not accurately correlate on the driver and front passenger side according to circumstances, even if the left and right temperature selectors are set at the same temperature. If this situation occurs, use the fine tune operation to adjust the air temperature on one side.*
- *There are cases where one or both of the airflow temperatures may not accurately correlate with the set temperature according to circumstances, when the airflow temperature settings on the left and right are substantially different. For example, if the left controller is set at central or neutral temperature while the right one is set at maximum heating or maximum cooling, or vice versa. If this situation occurs, use the fine tune operation to adjust the air temperature on each side.*

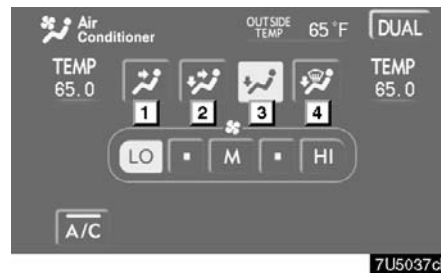


- ➡ Driver side setting air flow
- ➡ Passenger side setting air flow
- ⇒ Mixed air flow

SETTING OPERATION — manual control

When one of the manual control touch-screen buttons is depressed while operating in automatic mode, the operation corresponding to the depressed button is set. Other conditions continue to be adjusted automatically.

If manual air flow selection is desired —



The outlets from which air is delivered can be selected manually by touching the touch-screen button. The function of each mode is as follows:

- 1 Panel** — Air flows mainly from the instrument panel vents and rear vents.
- 2 Bi-level** — Air flows from both the floor vents, instrument panel vents and rear vents.
- 3 Floor** — Air flows mainly from the floor vents and rear vents.
- 4 Floor/windshield** — Air flows mainly from the floor vents, windshield vents and rear vents.

When you set the temperature selector setting at about the middle in automatic operation, warm air flows out of the floor vents and relatively low-temperature air flows out of the instrument panel vents and rear vents.

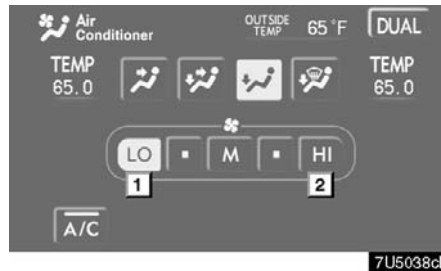
Selecting the floor/windshield position turns on the defogging function with the purpose of clearing the front view.

This position allows the air intake mode to select the OUTSIDE AIR mode automatically. This is to clean up the front view more quickly.

If you want to return the setting to the RECIRCULATED AIR mode, push the air intake control button once again.

The selected mode is highlighted.

If manual fan speed control is desired
—



- **1 Fan speed at low**
- 2 Fan speed at high**

The fan speed can be set to your desired speed by touching the appropriate fan speed control button.

The higher the fan speed is, the more air is delivered.

Pushing the “OFF” button turns the fan off.

To remove the exterior windshield frost and interior windshield fog, use the high speed setting.

The selected mode is highlighted.

AIR CONDITIONING

If manual switching of air intake is desired —



The air intake control button is used to switch the air intake between the OUTSIDE AIR mode and RECIRCULATED AIR mode.

With the button in the OUTSIDE AIR mode, the indicator light will turn off and the system will take fresh outside air into the vehicle.

If quick circulation of cooled air is desired, push the air intake control button for RECIRCULATED AIR. The indicator light will come on.

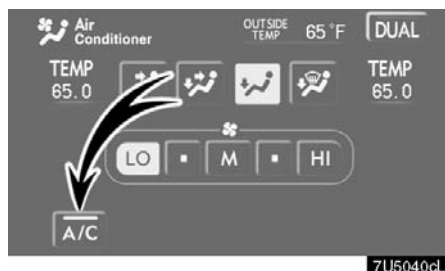
For normal use, it is best to keep the air intake control button set to the OUTSIDE AIR mode. If recirculated air is used during heating, the windows will fog up more easily.

To prevent fogging up of the windshield, the air intake mode may change automatically to the OUTSIDE AIR mode depending on the condition of the air conditioning system.

For example, when the ambient temperature is low, the air intake mode may change automatically to the OUTSIDE AIR mode. This is not a malfunction.

When the air conditioning is ON, if the engine coolant temperature becomes extremely high, the RECIRCULATED AIR mode is automatically selected. This is not a malfunction. When the engine coolant temperature is lowered, the previous mode resumes.

If manual on-off of the air conditioning is desired —



Touch “**A/C**” to turn the air conditioning on and touch it again to turn the air conditioning off.

The air conditioning does not work if the outside temperature is lowered down to around 0°C (32°F).

If the system is used for ventilation, heating in dry weather or removing frost or exterior fog on the windshield, turn the air conditioning off once it is no longer required. This will improve fuel economy. The air conditioning can be used for year-round automatic temperature control including cooling and dehumidifying operation.

If the air conditioning compressor does not operate, the indicator of “**A/C**” will blink. If the indicator of “**A/C**” blinks even when “**A/C**” is touched again, have the compressor checked by your Lexus dealer.

If the engine coolant temperature becomes extremely high, the air conditioning may shut off automatically to resolve emergency situation for engine cooling. This is not a malfunction. When the engine coolant temperature is lowered, the air conditioning comes on automatically.

(b) Windshield defogging and defrosting

To remove interior fog on the windshield —



Push the windshield air flow button.

AIR CONDITIONING

To remove frost or exterior fog on the windshield—

1. Push the “TEMP” (“^”) button to set the “HI”.
2. Push the windshield air flow button.

When the windshield air flow button is pushed, air flows mainly from the windshield vents and turns on the defogging function with the purpose of clearing the front view.

Pushing the windshield air flow button turns on the defroster-linked air conditioning. At this time, the indicator of “A/C” comes on regardless of whether or not “A/C” is touched in. This is to clean up the front view more quickly.

Pushing this button once again returns the air flow mode to the last one used.

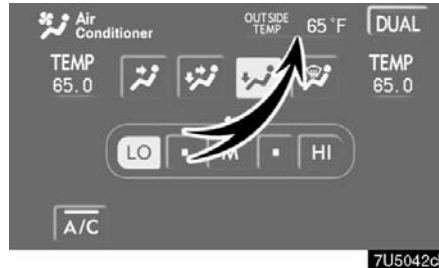
This button automatically changes the air intake mode to select the OUTSIDE AIR mode. This clears the front view more quickly. It is not possible to return to RE-CIRCULATED AIR mode when the windshield air flow button is on.



CAUTION

Do not use the windshield air flow button during cooled air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up blocking your vision.

(c) Outside temperature display



Outside temperature is displayed on the screen.

The displayed temperature ranges from -30°C (-22°F) up to 50°C (122°F).

If the temperature shows “-” or “E”, take your vehicle to your Lexus dealer.

(d) Operating tips

- To cool off your Lexus after it has been parked in the hot sun, drive with the windows open for a few minutes. After the excess heat has blown away, close the windows. This vents the hot air, allowing the air conditioning to cool the interior more quickly.
- Make sure the air intake grilles in front of the windshield are not blocked (by leaves or snow, for example).
- If air flow control is not satisfactory, check the side vents and rear vents. (See “(e) Side vents and rear vents”.)
- On humid days, do not blow cold air on the windshield. The windshield could fog up because of the difference in air temperature on the inside and outside of the windshield.
- Keep the area under the front seats clear to allow air to circulate throughout the vehicle.
- On cold days, set the fan speed to high for a minute to help clear the intake ducts of snow or moisture. This can reduce the amount of fogging on the windows.
- When driving on dusty roads, close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake control button be set to the OUTSIDE AIR mode to take in the fresh air and set the fan speed selector to any setting except OFF.
- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake control button be temporarily pressed in to the RECIRCULATED AIR mode, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

Heating

For best results, set controls to:

For automatic operation —

Push in the “AUTO” button.
Temperature — To the desired temperature
Air intake — OUTSIDE AIR
Air conditioning — OFF

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards high temperature
Air intake — OUTSIDE AIR
Air flow — FLOOR
Air conditioning — OFF

- For quick heating, select RECIRCULATED AIR mode for a few minutes. To keep the windows from fogging, select OUTSIDE AIR mode after the vehicle interior has been warmed.
- Touch “A/C” on for dehumidified heating.
- Choose floor/windshield air flow to heat the vehicle interior while defrosting or defogging the windshield.

AIR CONDITIONING

Air conditioning

For best results, set controls to:

For automatic operation —

Push in the “AUTO” button.
Temperature — To the desired temperature
Air intake — **OUTSIDE AIR**
Air conditioning — **ON**

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards low temperature
Air intake — **OUTSIDE AIR**
Air flow — **PANEL**
Air conditioning — **ON**

- For quick cooling, select RECIRCULATED AIR mode for a few minutes.

Ventilation

For best results, set controls to:

For automatic operation —

Push in the “AUTO” button.
Temperature — Towards low temperature
Air intake — **OUTSIDE AIR**
Air conditioning — **OFF**

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards low temperature
Air intake — **OUTSIDE AIR**
Air flow — **PANEL**
Air conditioning — **OFF**

Defogging and defrosting

– The inside of the windshield

For best results, set controls to:

For automatic operation —

Temperature — Towards high temperature to heat; low temperature to cool
Air intake — **OUTSIDE AIR**
Air flow — **WINDSHIELD**

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards high temperature to heat; low temperature to cool
Air intake — **OUTSIDE AIR**
Air flow — **WINDSHIELD**

When the windshield air flow button is pushed, air flows mainly from the windshield vents and turns on the defogging function with the purpose of clearing the front view.

Pushing the windshield air flow button turns on the defroster-linked air conditioning. At this time, the indicator of “A/C” comes on regardless of whether or not “A/C” is touched in. This is to clean up the front view more quickly.

Pushing this button once again returns the air flow mode to the last one used.

This button automatically changes the air intake mode to select the OUTSIDE AIR mode. This clears the front view more quickly. It is not possible to return to RECIRCULATED AIR mode when the windshield air flow button is on.

- On humid days, do not blow cold air on the windshield – the difference between the outside and inside temperatures could make the fogging worse.

– The outside of the windshield

For best results, set controls to:

For automatic operation —

Temperature — Towards high temperature
Air intake — OUTSIDE AIR
Air flow — WINDSHIELD

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards high temperature
Air intake — OUTSIDE AIR
Air flow — WINDSHIELD

When the windshield air flow button is pushed, air flows mainly from the windshield vents and turns on the defogging function with the purpose of clearing the front view.

Pushing the windshield air flow button turns on the defroster-linked air conditioning. At this time, the indicator of “A/C” comes on regardless of whether or not “A/C” is touched in. This is to clean up the front view more quickly.

Pushing this button once again returns the air flow mode to the last one used.

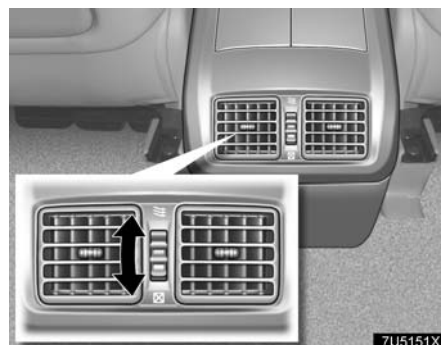
This button automatically changes the air intake mode to select the OUTSIDE AIR mode. This clears the front view more quickly. It is not possible to return to RE-CIRCULATED AIR mode when the windshield air flow button is on.

- To heat the vehicle interior while defrosting the windshield, choose floor/windshield air flow.

(e) Side vents and rear vents



► Side vents



► Rear vents

AIR CONDITIONING

If air flow control is not satisfactory, check the side vents and rear vents. The side vents and rear vents may be opened or closed as shown.

When outside temperature is cold like a winter season, air flow temperature from the side vents and rear vents may not be warmed up enough for a while until that the engine coolant temperature becomes high enough.

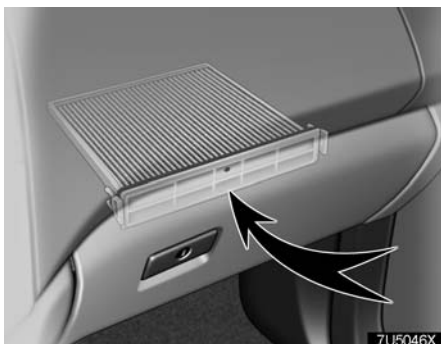
If air flow from the side vents and rear vents is not satisfactory, air flow direction can be changed manually by adjusting the vents fin direction or the vents may be closed.

(f) Checking and replacing the air conditioning filter



The air conditioning filter information label is placed in the glove box as shown and indicates that a filter has been installed.

The air conditioning filter prevents dust from entering the vehicle through the air conditioning vent.

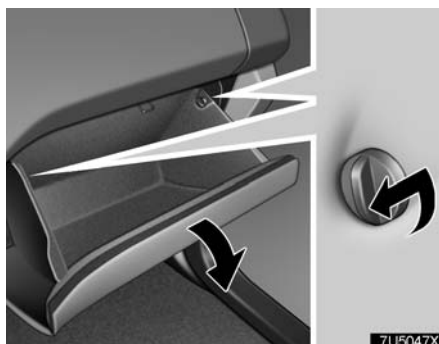


The air conditioning filter is behind the glove box.

The air conditioning filter may clog after long use. The filter may need to be replaced if the air flow of the air conditioner and heater experiences extreme reductions in operating efficiency, or if the windows become to fog up easily.

If the symptoms of air conditioning efficiency problems occur, contact your nearest Lexus dealer to have the filter checked and replaced.

To maintain the air conditioning efficiency, inspect and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow, such as inner city or desert areas, early replacement may be required. (For scheduled maintenance information, please refer to the "Warranty and Services Guide/Owner's Manual Supplement/Scheduled Maintenance".)

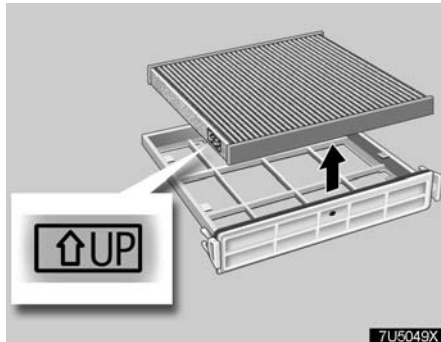


1. Open the glove box. Remove the 2 pins installed on the upper part of the glove box and lower the glove box.



2. Remove the filter case from the filter outlet as shown in the illustration.

AIR CONDITIONING



3. Remove the filter from the filter case.

4. Inspect the filter on the surface.

If it is just moderately dusty, it may be cleaned by blowing compressed air from the reverse surface. Do not wash or oil the filter.

If it is dirty, it should be replaced.

When installing the filter in the filter case, keep the arrow pointing up.

INFORMATION
<i>The air conditioning filter should be installed properly in position. The use of air conditioning with the filter removed may cause deteriorated dustproof performance and then affect air conditioning performance.</i>